



Sequence Listing

<110> Bayer Aktiengesellschaft
<120> Anti-Kazlauskas-Lipases
<130> LeA 35 991
<160> 2
<170> PatentIn version 3.1

<210> 1
<211> 885
<212> DNA
<213> nucleic acid
<220>
<221> CDS
<222> (1)..(885)
<223>

<400> 1
atg gca cag gtg aag gcc aac ggc att acc ctc gag tat gaa gag cag 48
Met Ala Gln Val Lys Ala Asn Gly Ile Thr Leu Glu Tyr Glu Glu Gln
1 5 10 15

ggc cat cgc cac cat ccg tcc atg ctc ctc att atg ggc ctg ggc ggc 96
Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly
20 25 30

cag tta atc gac tgg ccc gag gag ttc atc cgg ggg ctg gct gaa cga 144
Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg
35 40 45

ggc ttc cgg gta atc tgt ttc gac aac cgc gac gcg ggg ctt tcg acg 192
Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr
50 55 60

aaa ctt gaa ggc gtg aaa aaa ccg aac att gcc cgg gta ttt ctc ctg 240
Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu
65 70 75 80

gcg agc atg ggc cta aag ccc agg gtg cct tac acc ctc gac gac atg 288
Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met
85 90 95

gcc ctg gac acc gtg ggg ctg atg gat gcc ctg ggc att gag agc acc 336
Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr
100 105 110

cac gta gtt ggc gtc tcc atg ggc ggc atg att gcg cag att cta ggg 384
His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly
115 120 125

gcg aag cac ggg gag cgg gtg aaa tcc ctt acc ctg atg att acc tcc 432
Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser
130 135 140

tcc ggc aac ccc cgc atg ccg gcg ccc agg ccg cag gtg ctg caa aag 480
Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys
145 150 155 160

ttt atg cgg gtg ccc aag agc atg gat aag gaa gag tgg att aaa tac	528
Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr	
165 170 175	

aac ttg gag ctt tta acc acc atc ggc agc ccc ggg ttg gac cgg gag	576
Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu	
180 185 190	

aag ctg gcc tta gac gtg agg aag agc ata gag cgg tgc ctt tgc ccc	624
Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro	
195 200 205	

gaa ggc acg cag cgg cag ctg gca gcc atc ctg cag agc ggc agc agg	672
Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg	
210 215 220	

gtg aag ctg ctc cgg cgg atc gct gtc ccc acc ctg gtc atc agc ggg	720
Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly	
225 230 235 240	

gcg gaa gat ccc ctc ctg ccg tac cag tgc ggc cgg gac att gcc gac	768
Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp	
245 250 255	

cat atc ccg gga gcc cgc ttc gag ctc atc gag ggc atg ggg cac gac	816
His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp	
260 265 270	

att ccc gag cgg cac atc ccc cgg ctg att gag ctc atc gcc ggg cac	864
Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His	
275 280 285	

gcc gcg gcc gcg gaa gct taa	885
Ala Ala Ala Ala Glu Ala	
290	

<210> 2
 <211> 294
 <212> PRT
 <213> nucleic acid

<400> 2

Met Ala Gln Val Lys Ala Asn Gly Ile Thr Leu Glu Tyr Glu Glu Gln
1 5 10 15

Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly
20 25 30

Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg
35 40 45

Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr
 50 55 60

Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu
 65 70 75 80

Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met
 85 90 95

Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr
 100 105 110

His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly
 115 120 125

Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser
 130 135 140

Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys
 145 150 155 160

Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr
 165 170 175

Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu
 180 185 190

Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro
 195 200 205

Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg
 210 215 220

Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly
 225 230 235 240

Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp
 245 250 255

His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp
 260 265 270

Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His
275 280 285

Ala Ala Ala Ala Glu Ala
290